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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Gharda Chemicals Limited
c/o Frank Sobotka, Ph.D.
IPM Resources LLC
4032 Crockers Lake Blvd., Suite 818
Sarasota, FL 34238

SEP 25 2013

Dear Dr. Sobotka:

Subject: Amendment: Revise per Agency letter dated January 10, 2013 regarding pyrethroids
REALITY Termiticide/Insecticide
EPA Reg. No. 33658-33
Your submission dated March 26, 2013

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) section 3(c)(7)(a), is acceptable and a stamped copy of the label is enclosed for your records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10), or durably marked on the container itself.

If you have any questions regarding this letter, please contact Dana Pilitt, PhD of my staff at (703) 305-7071 or via e-mail at pilitt.dana@epa.gov.

Sincerely,

A handwritten signature in black ink that reads "Richard Gebken".

Richard Gebken
Product Manager 10
Insecticide Branch
Registration Division (7505P)

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[Submitted Version (Revised: 05/23/2011) In PRD Review]
[Revised: 03/25/13 (EPA Request for Revisions to Environmental Hazard and General Labeling for Pyrethroid Non-Agricultural Outdoor Products, EPA Letter Dated: 01/10/2013)]

REALITY[®] *Termiticide/Insecticide*

For use as an insecticide on ornamentals grown in interiorscapes, for perimeter insect control on lawns, ornamental trees and shrubs around residential, institutional, public, commercial and industrial buildings, parks, recreational areas and athletic fields, treatment of preconstruction lumber and logs, and for use on buildings/structures.

For control of subterranean termites: For use by individuals/firms licensed or registered by the state to apply Termiticide products. States may have more restrictive requirements regarding qualifications of persons using this product. Consult the pest control regulatory agency of your state prior to use of this product.

| | |
|---------------------|---------------|
| Active Ingredient | |
| Permethrin* | 36.7% |
| Other Ingredients** | 63.3% |
| TOTAL | 100.0% |

*cis/trans ratio: Max. 40% (±) cis and min. 60% (±) trans

** Contains petroleum distillates.

Contains 3.2 pounds permethrin per gallon as an emulsifiable concentrate.

| |
|---|
| ACCEPTED |
| SEP 25 2013 |
| Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 33658-33 |

KEEP OUT OF REACH OF CHILDREN WARNING

PRECAUCION AL USUARIO: Si usted no entiende la etiqueta, busque a alguien que le explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

| First Aid Synthetic Pyrethroid | |
|---|---|
| IF ON SKIN OR CLOTHING: | <ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice. |
| IF IN EYES: | <ul style="list-style-type: none"> • Hold eye open and rinse gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. • Call a poison control center for treatment advice |
| IF SWALLOWED: | <ul style="list-style-type: none"> • Call a Poison Control Center or doctor immediately for treatment advice. • Do not give any liquid to the person. • Do not give anything by mouth to an unconscious person. • Do not induce vomiting unless told to do so by a poison control center or doctor. |
| FOR MEDICAL EMERGENCY: Call PROSAR 1-866-359-5660 | |
| Note to Physician: This product contains aromatic hydrocarbons, which can produce a severe pneumonitis if aspirated. Consideration should be given to gastric lavage with an endotracheal tube in place. Treatment is controlled removal of exposure followed by symptomatic and supportive care. | |
| NOTICE: before using this product, read the entire Precautionary Statements, Conditions of Sale and Warranty, Directions for Use, Use Restrictions and Storage and Disposal instructions inside booklet. If the Conditions of Sale and Warranty are not acceptable, return the product unopened within thirty days of purchase to the place of purchase. | |

EPA Est. No.: 44616-MO-1

EPA Reg. No. 33658-33

Manufactured by :
GHARDA CHEMICALS LIMITED
Gharda House
48 Hill Road
Bandra West, Mumbai INDIA 400 050

Distributed by :
GHARDA CHEMICALS LIMITED
Newtown, PA 18940 USA
1-215-968-9474

Net Contents: [TBD Gal.]

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PRECAUTIONARY STATEMENTS

Hazards to Humans (and Domestic Animals)

WARNING. May be harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.

All pesticide handlers (mixers, loaders and applicators) must wear long sleeved shirt and long pants, socks, shoes and chemical resistant gloves. After the product is diluted in accordance with label directions for use, and/or when mixing and loading using a closed spray tank transfer system (such as U-Turn), or an in line injector system, shirt, pants, socks, shoes and waterproof gloves are sufficient. In addition, all pesticide handlers must wear a respiratory protection device when working in a non-ventilated space. All pesticide handlers must wear protective eyewear when working in non-ventilated space or when applying Termiticide by rodding or sub-slab injection.

Use one of the following Mine Safety and Health Administration (MSHA) /National Institute for Occupational Safety and Health (NIOSH) air purifying respirator types with approved number prefixes such as: TC-23C, TC-21C, TC-19C, TC-13F and TC-14G.

or a NIOSH approved respirator with any R, P or HE filter.

or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE prefilter.

When treating adjacent to an existing structure, the applicator must check the area to be treated, and immediately adjacent areas of the structure, for visible and accessible cracks and holes to prevent any leaks or significant exposures to persons occupying the structure. People present or residing in the structure during application must be advised to remove their pets and themselves from the structure if they see any signs of leakage. After application, the applicator is required to check for leaks. All leaks resulting in the deposition of termiticide in locations other than those prescribed on this label must be cleaned up prior to leaving the application site. Do not allow people or pets to contact contaminated areas or to reoccupy contaminated areas of the structure until the clean up is completed.

Environmental Hazards

This product is highly toxic to bees exposed to direct treatment or residues on crops or weeds. Do not apply this product or allow it to drift to crops or weeds on which bees are actively foraging. Additional information may be obtained from your Cooperative Extension Service.

This product is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. Do not apply when weather conditions favor drift from treated areas.

Physical/Chemical Hazards

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Shake Well Before Using

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

PESTICIDE STORAGE: Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in a well-ventilated area.

PESTICIDE DISPOSAL: Pesticide spray mixture or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL:

(Nonrefillable container 5 gallons or less): Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. If not, triple rinse emptied container and offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities, such as burning of plastic containers. If burned, stay out of smoke.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

(Refillable containers up to 250 gallons): Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning the container before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities, such as burning of plastic containers. If burned, stay out of smoke.

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC: 1-800-424-9300

General Information on the Use of This Product

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior plantscapes, ornamental gardens or parks, or lawns and grounds.

Choice of appropriate procedures should include consideration of such variable factors as the design of the structure, location of heating, ventilation, and air conditioning (HVAC) systems, water table, soil type, soil compaction, grade conditions, and location and type of domestic water supplies and utilities.

For advice concerning current control practices with relation to specific local conditions, consult your local State Cooperative Extension or regulatory agencies.

Specific Application Restrictions For Residential Outdoor Surface and Space Sprays

All outdoor applications, if permitted elsewhere on this label, must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses, if allowed elsewhere on this label:

1. Applications to soil or vegetation, as listed on this label, around structures;
2. Applications to lawns, turf, and other vegetation, as listed on this label;
3. Applications to the side of a building, up to a maximum height of 3 feet above grade;
4. Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning, or other structure;
5. Applications around potential pest entry points into buildings, when limited to a surface band not to exceed one inch in width;
6. Applications made through the use of a coarse, low pressure spray to only those portions of surfaces that are directly above bare soil, lawn, turf, mulch or other vegetation, as listed on this label, and not over an impervious surface, drainage or other condition that could result in runoff into storm drains, drainage ditches, gutters, or surface waters, in order to control occasional invades or aggregating pests.

SUBTERRANEAN TERMITE CONTROL

The use of this product prevents and controls termite infestations in and around structures and constructions.

The dilute insecticidal emulsion must be adequately dispersed in the soil to establish a barrier between the wood and the termites in the soil. As a good practice: 1) all non-essential wood and cellulose containing materials should be removed from around foundation walls, crawl spaces and porches: 2) eliminate termite access to moisture by repairing faulty plumbing and/or construction grade. Soil around untreated structural wood in contact with soil should be treated as described below.

To establish an effective insecticidal barrier with this product the service technician must be familiar with current termite control practices such as: trenching, rodding, sub-slab injection, coarse fan spraying of soil surfaces, crack and crevice (void) injection, excavated soil treatment,

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and brush or spray applications to infested or susceptible wood. These techniques must be correctly employed to prevent or control infestations by subterranean termites such as: *Coptotermes*, *Heterotermes*, *Reticulitermes* and *Zootermopsis*. The biology and behavior of the species involved should be considered by the service technician in determining which control practices to use to eliminate or prevent the termite infestation.

Permethrin the active ingredient in REALITY Termiticide/Insecticide is extremely toxic to fish and aquatic invertebrates. Care should be used when making applications near bodies of water. Locate sources of water discharge from structures, such as French drains and sump systems. Turn off discharge pumps until after application is complete. Observe for any change in color or odor of effluent discharge. Consult state and local specifications for recommended distances of wells from treated areas, or if such regulations do not exist, refer to Federal Housing Administration Specifications (H.U.D.) for guidance.

Note: Crawlspace are to be considered inside of the structure.

Critical Areas: Critical areas include areas where the foundation is penetrated by utility services, cracks and expansion joint, bath traps and areas where cement constructions have been poured adjacent to the foundation such as stairs, patios, and slab additions.

Structures with Wells/Cisterns Inside Foundations

Structures that contain wells or cisterns within the foundation of a structure can only be treated using the following techniques:

(1) Do not treat soil while it is beneath or within the foundation or along the exterior perimeter of a structure that contains a well or cistern. The treated backfill method must be used if soil is removed and treated outside/away from the foundation. The treated backfill technique is described as follows:

- (a) Trench and remove soil to be treated onto heavy plastic sheeting or similar material or into a wheelbarrow.
- (b) Treat the soil at the rate of 4 gallons of dilute emulsion per 10 linear feet per foot of depth of the trench, or 1 gallon per 1.0 cubic feet of soil (See Mixing Directions section of the label). Mix thoroughly into the soil taking care to contain the liquid and prevent runoff and spillage.
- (c) After the treated soil has absorbed the diluted emulsion, replace the soil into the trench.

(2) Treat infested and/or damaged wood in place using an injection technique such as described in the Control of Wood Infesting Insects section of this label.

Structures with Adjacent Wells/Cisterns and/or other Water Bodies

Applicators must inspect all structures with nearby water sources such as wells, cisterns, surface ponds, streams, and other bodies of water and evaluate, at a minimum, the treatment recommendations listed below prior to making an application.

- (1) Prior to treatment, if feasible, expose the water pipe(s) coming from the well to the structure, if the pipe(s) enter the structure within 3 feet of grade.
- (2) Prior to treatment applicators are advised to take precautions to limit the risk of applying the termiticide into subsurface drains that could empty into any bodies of water. These precautions include evaluating whether application of the termiticide to the top of the footer may result in contamination of the subsurface drain. Factors such as depth to the drain system and soil type and degree of compaction should be taken into account in determining the depth of treatment.

(3) When appropriate (i.e., on the waterside of the structure), the treated backfill technique (described above) can also be used to minimize off-site movement of termiticide.

Prior to using this technique near wells or cisterns, consult state, local or federal agencies for information regarding approved treatment practices in your area.

Application Rate: Use a 0.5% emulsion for subterranean termites. For other pests on the label use specific listed rates.

only
before

only
before

Mixing Directions: Mix the Termiticide use dilution in the following manner: Fill Tank 1/4 to 1/3 full. Start pump to begin by-pass agitation and place end of treating tool in tank to allow circulation through hose. Add appropriate amount of REALITY Termiticide/Insecticide. (See Rate/Volume Conversion Chart). Add remaining amount of water. Let pump run and allow circulation through the hose for 2 to 3 minutes.

REALITY Termiticide/Insecticide may also be mixed into full tanks of water, but requires substantial agitation to insure uniformity of the emulsion.

To prepare a 0.5% water emulsion, ready to use, dilute 1.25 gallons of REALITY Termiticide/Insecticide with 94.75 gallons of water.

Mixing: For the desired application rate, use the chart below to determine the amount of REALITY Termiticide/Insecticide required for a given volume of finished emulsion.

REALITY Termiticide/Insecticide Rate/Volume Conversion Chart

| Desired Gallons of Finished Emulsion | Emulsion Concentration (Amount of REALITY Termiticide/Insecticide + Water) | | |
|--------------------------------------|---|---|---|
| | 0.5% | 1.0% | 2.0% |
| 1 | 1 2/3 fl. oz. + 126 1/3 fl. oz. water (7.9 pints) | 3 1/3 fl. oz. + 124 2/3 fl. oz. water (7.8 pints) | 6 2/3 fl. oz. + 121 1/3 fl. oz. water (7.6 pints) |
| 5 | 8 1/3 fl. oz. + 4 gal, 119 2/3 fl. oz. water | 16 2/3 fl. oz. + 4 gal, 111 1/3 fl. oz. water | 33 1/3 fl. oz. + 4 gal, 94 2/3 fl. oz. water |
| 10 | 16 2/3 fl. oz. + 9 gal, 111 1/3 fl. oz. water | 33 1/3 fl. oz. + 9 gal, 94 2/3 fl. oz. water | 66 2/3 fl. oz. + 9 gal, 61 2/3 fl. oz. water |
| 19 | 0.25 gal + 18.75 gal water | 0.5 gal + 18.5 gal water | 1.0 gal + 18 gal water |
| 38 | 0.50 gal + 37.5 gal water | 1.0 gal + 37 gal water | 2.0 gal + 36 gal water |
| 58 | 0.75 gal + 57.25 gal water | 1.5 gal + 56.5 gal water | 3.0 gal + 55 gal water |
| 96 | 1.25 gal + 94.75 gal water | 2.5 gal + 93.5 gal water | 5.0 gal + 91 gal water |
| 192 | 2.5 gal + 189.5 gal water | 5.0 gal + 187 gal water | 10.0 gal + 182 gal water |

Common Units of Measure:
1 pint = 16 fluid ounces (oz.)
1 gallon = 4 quarts = 8 pints = 128 oz.

*For termite applications, only use these rates in conjunction with the application volume adjustments as listed in the section below or in the foam or underground service application sections.

Pre-Construction Subterranean Termite Treatment

Application Restrictions

Do not apply at a lower dosage and/or concentration than specified on this label for applications prior to the installation of the finished grade.

The treatment site must be covered prior to a rain event in order to prevent run-off of the pesticide into non-target areas.

When treating foundations deeper than 4 feet, apply the termiticide as the backfill is being replaced, or if the construction contractor fails to notify the applicator to permit this, treat the foundation to a minimum depth of 4 feet after the backfill has been installed. The applicator must either cover the soil him/herself or provide written notification of the above requirement to the contractor on site and to the person commissioning the application (if different than the contractor). If notice is provided to the contractor or the person commissioning the application, then they are responsible under FIFRA to ensure that: 1) if the concrete slab cannot be poured

over the treated soil ¹ within 24 hours of application the treated soil is ² covered with a waterproof covering (such as polyethylene sheeting), and 2) the treated soil is covered if precipitation is predicted to occur before the concrete slab is scheduled to be poured.

The applicator must trench and rod into the trench or trench along the foundation walls and around pillars and other foundation elements, at the rate prescribed from grade to a minimum depth of 4 feet. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing. However, in no case should a structure be treated below the footing.

Do not treat soil that is water-saturated or frozen.

Do not treat when raining.

Do not allow treatment to runoff from the target area.

Do not apply within 10 feet of storm drains. Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes or ponds; estuaries; and commercial fish farm ponds).

Do not make on-grade applications when sustained wind speeds are above 10 mph (at application site) at nozzle end height.

Effective pre-construction subterranean termite control is achieved by the establishment of vertical and/or horizontal insecticidal barriers using 0.5% emulsion of REALITY Termiticide/Insecticide. To meet termite-proofing requirements, follow the procedures in the latest edition of the Housing and Urban Development Minimum Property Standards (refer to U.S.D.A. Home and Garden Bulletin No. 64).

Application Directions

Horizontal Barrier: Create a horizontal barrier wherever treated soil will be covered, such as footing trenches, slab floors, carports, and the soil beneath stairs and crawlspaces.

For a 0.5% rate, apply 1 gallon of dilution per 10 square feet, or use 1.6 fluid ounces of REALITY Termiticide/Insecticide per 10 square feet in sufficient water (no less than 1/2 gallon or more than 2 gallons) to provide thorough and continuous coverage of the area being treated.

If the fill is washed gravel or other coarse material, it is important that a sufficient amount of dilution be used to reach the soil substrate beneath the coarse fill.

Applications shall be made by a low-pressure spray (less than 50 p.s.i.) using a coarse spray nozzle. If slab will not be poured the same day as treatment, cover treated soil with a waterproof barrier such as polyethylene sheeting. This is not necessary if foundation walls have been installed around the treated soil.

Vertical Barrier: Vertical barriers must be established in areas such as around the base of foundations, plumbing, utility entrances, backfilled soil against foundation walls, and other critical areas.

For a 0.5% rate, apply 4 gallons of dilution per 10 linear feet per foot of depth or 1.6 fluid ounces of REALITY Termiticide/Insecticide per 10 linear feet of depth from grade to top of footing in sufficient water (no less than 2 gallons or more than 8 gallons) to ensure complete coverage.

- a. When trenching and rodding into the trench or trenching, it is important that emulsion reaches the top of the footing. Rod holes must be spaced so as to achieve a continuous insecticidal barrier, but in no case more than 12 inches apart.
- b. Care should be taken to avoid soil washout around footing.
- c. Trenches need not be wider than 6 inches. Emulsion should be mixed with the soil as it is being replaced in the trench.

d. For a monolithic slab, an inside vertical barrier may not be required.

Hollow block voids may be treated at a rate of 2 gallons of emulsion per 10 linear feet so that the emulsion will reach the top of the footing.

Prior to each application, applicators must notify the general contractor, construction superintendent, or similar responsible party, of the intended Termiticide application and intended sites of application and instruct the responsible person to notify construction workers and other individuals to leave the area to be treated during application and until the Termiticide is absorbed into the soil.

Post-Construction Subterranean Termite Treatment

Application Restrictions Around or Near Floor Drains: Application is prohibited directly into sewers, or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.

Application Volume: To provide maximum control and protection against termite infestation apply the specified volume of the finished water emulsion and active ingredient as set forth in the directions for use section of this label. If soil will not accept the labeled application volume, the volume may be reduced provided there is a corresponding increase in concentration so that the amount of active ingredient applied to the soil remains the same.

Note: Large reductions of application volume reduce the ability to obtain a continuous barrier. Variance is allowed when volume and concentration are consistent with label directed rates and continuous barrier can still be achieved.

Where desirable for post construction treatments, the volume of the 1.0% emulsion may be reduced by 1/2 the labeled volume or a 2.0% emulsion may be applied at 1/4 the labeled volume (see Volume Adjustment Chart). Volume adjustments at 2.0% are not recommended for sub slab injection. See Volume Adjustment Chart below.

Note: When volume is reduced, the hole spacing for sub slab injection and soil rodding may require similar adjustment to account for lower volume dispersal of the Termiticide in the soil.

Volume Adjustment Chart

| Rate (% emulsion) | Application Rate | | |
|---|------------------|---------------|-----------------|
| | 0.5% | 1.0% | 2.0%* |
| Volume allowed | | | |
| HORIZONTAL (gallons of Emulsion per 10 sq. ft.) | 1.0 (gallons) | 0.5 (gallons) | 0.25 (gallons)* |
| VERTICAL (gallons of Emulsion per 10 lin. ft.) | 4.0 (gallons) | 2.0 (gallons) | 1.0 (gallons)* |

*Not recommended for sub slab injection.

After Treatment: All holes in commonly occupied areas into which REALITY Termiticide/Insecticide has been applied must be plugged. Plugs must be of a non-cellulose material or covered by an impervious, non-cellulose material.

Use a 0.5% emulsion for post-construction treatment. Post-construction soil applications shall be made by injection, rodding, and/or trenching or coarse fan spray with pressures not exceeding 25 p.s.i. at the nozzle. Care should be taken to avoid soil washout around the footing.

Do not apply emulsion until location of wells, radiant heat pipes, water and sewer lines and electrical conduits are known and identified., Caution must be taken to avoid puncturing the injection into these elements.

Foundations: For applications made after the final grade is installed, the applicator must trench and rod into the trench or trench along the foundation walls and around pillars and other foundation elements, at the rate prescribed from grade to the top of the footing. When the footing is more than four (4) feet below grade, the applicator must trench and rod into the trench or trench along the foundation walls at the rate prescribed to a minimum depth of four feet. The actual depth of treatment will vary depending on soil type, degree of compaction, and location of termite activity. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing. However, in no case should a structure be treated below the footing.

Slabs: Vertical barrier may be established by sub-slab injection within the structure and rodding and/or trenching outside using a treatment rate of 4 gallons of emulsion per 10 linear feet per foot of depth. Special care must be taken to distribute the treatment evenly. Treatment should not extend below the bottom of the footing.

Treat along the outside of the foundation and where necessary beneath the slab on the inside of the foundation walls. Treatment may also be required beneath the slab along both sides of interior footing-supported walls, one side of interior partitions and along all cracks and expansion joints. Horizontal barriers may be established where necessary by long-rodding or by grid pattern injection vertically through the slab.

- a. Drill holes in the slab and/or foundation to allow for the application of a continuous insecticidal barrier no more than 12 inches apart.
- b. For shallow foundations (1 foot or less) dig a narrow trench approximately 6 inches wide along the outside of the foundation walls. Do not dig below the bottom of the footing. The emulsion should be applied to the trench and soil at 4 gallons per 10 linear feet per foot of depth as the soil is replaced in the trench.
- c. For foundations deeper than 1 foot follow the rates for basements.
- d. Exposed soil in bath traps may be treated with a 0.5% emulsion.

Basements: Where the footing is greater than 1 foot in depth from grade to the bottom of the foundation, application must be made by trenching and rodding into this trench, or injecting at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth. When the footing is more than 4 feet below grade, the applicator may trench and rod into the trench, or trench along foundation walls at the rate prescribed for 4 feet of depth. Rod holes must be spaced so as to achieve a continuous termiticide barrier, but in no case more than 12 inches apart. The actual depth of treatment will vary depending on soil type, degree of compaction, and location of termite activity. However, in no case should a structure be treated below the footing. Sub-slab injection may be necessary along the inside of foundation walls, along cracks and partition walls, around pipes, conduits, piers, and along both sides of interior footing-supported walls.

Accessible Crawl Spaces: For crawl spaces, apply vertical termiticide barriers at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth from grade to the top of the footing, or if the footing is more than 4 feet below grade, to a minimum depth of 4 feet. Apply by trenching and rodding into the trench, or trenching. Treat both sides of foundation and around all piers and pipes. Where physical obstructions, such as concrete walkways adjacent to foundation elements, prevent trenching, treatment may be made by rodding alone. When soil type and/or conditions make trenching prohibitive, rodding may be used. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing. Read and follow the mixing and use direction section of the label if situations are encountered where the soil will not accept the full application volume.

- 1) Rod holes and trenches must not extend below the bottom of the footing.
- 2) Rod holes must be spaced so as to achieve a continuous chemical barrier but in no case more than 12 inches apart.

3) Trenches must be a minimum of 6 inches deep or to the bottom of the footing, whichever is less, and need not be wider than 6 inches. When trenching in sloping (tiered) soil, the trench must be stepped to ensure adequate distribution and to prevent termiticide from running off. The emulsion must be mixed with the soil as it is replaced in the trench.

4) When treating crawl spaces, turn off the air circulation system of the structure until application has been completed and all termiticide has been absorbed by the soil.

Inaccessible Crawl Spaces: For inaccessible interior areas, such as areas where there is insufficient clearance between floor joists and ground surfaces to allow operator access, excavate, if possible, and treat according to the instructions for accessible crawl spaces. Otherwise, apply one, or a combination of the following two methods.

1) To establish a horizontal barrier, apply to the soil surface, 1 gallon of emulsion per 10 sq. ft. overall using a nozzle pressure of less than 25 p.s.i. and a coarse application nozzle (e.g., Delavan Type RD Raindrop, RD-7 or larger, or Spraying Systems Co. 8010LP TeeJet or comparable nozzle). For an area that cannot be reached with the application wand, use one or more extension rods to make the application to the soil. Do not broadcast or powerspray with higher pressures.

2) To establish a horizontal barrier, drill through the foundation wall or through the floor above and treat the soil perimeter at a rate of 1 gallon of emulsion per 10 square feet. Drill spacing must be at intervals not to exceed 16 inches. Many states have smaller intervals so check state regulations, which may apply.

When treating crawl spaces, turn off the air circulation system of the structure until application has been completed and all termiticide has been absorbed by the soil.

Masonry Voids: Drill and treat voids in multiple masonry elements of the structure extending from the structure to the soil in order to create a continuous treatment barrier in the area to be treated. Apply at the rate of 2 gallons of emulsion per 10 linear feet of footing using a nozzle pressure of less than 25 p.s.i. When using this treatment, access holes must be drilled below the sill plate and should be as close as possible to the footing as is practical. Care should be exercised not to drill entirely through and into the structure. Treatment of voids in block or rubble foundation walls must be closely examined. Applicators must inspect areas of possible runoff as a precaution against application leakage in the treated areas. Some areas may not be treatable or may require mechanical alteration prior to treatment.

All leaks resulting in the deposition of termiticide in locations other than those prescribed on this label must be cleaned up prior to leaving the application site. Do not allow people or pets to contact contaminated areas or to reoccupy the contaminated areas of the structure until the clean up is completed.

Note: When treating behind veneer, care should be taken not to drill beyond the veneer. If concrete blocks are behind the veneer, both the blocks and the veneer may be drilled and treated at the same time.

Excavation Technique: If treatment must be made in difficult situations, such as near wells, cisterns, along fieldstone or rubble walls, along faulty foundation walls, or around pipes and utility lines which lead downward from the structure to a well or pond, application may be made in the following manner:

- a. Trench and remove soil to be treated onto heavy plastic sheeting or similar material.
- b. Treat the soil at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth of the trench. Mix the emulsion thoroughly into the soil taking care to prevent liquid from running off the liner.
- c. After the treated soil has absorbed the liquid emulsion, replace the soil in the trench.

Foam Applications

REALITY Termiticide/Insecticide emulsion, from 0.5 to 2.0% may be converted to foam with expansion characteristics from 2 to 40 times.

Foam Applications: The emulsion may be converted to foam, and the foam used to control and prevent termite infestation.

Depending on the circumstances, foam application alone, or in combination with liquid emulsion applications. Applications may be made behind veneers, piers, chimney bases, into rubble foundations, into block voids or structural voids, under slabs, stoops, porches, or to the soil in crawlspaces, and other similar voids.

Foam and liquid application must be consistent with volume and active ingredient instructions in order to insure proper application has been made. The volume and amount of active ingredient are essential to an effective treatment. At least 75% of the labeled liquid emulsion volume of product must be applied, with the remaining percent delivered to appropriate areas using foam application. Refer to label and use recommendations of the foam manufacturer and the foaming equipment manufacturer.

Foam applications are generally a good supplement to liquid treatments in difficult areas, but may be used alone in difficult spots.

Note location of electrical sources prior to foaming voids to avoid possible shock hazard.

Application Under Slabs or to Soil in Crawlspaces to Prevent or Control Termites

Application may be made using REALITY Termiticide/Insecticide foam alone or in combination with liquid emulsion. The equivalent of at least 4 gallons (6.4 oz. of REALITY Termiticide/Insecticide concentrate) of 0.5% emulsion per 10 linear feet (vertical barrier), or at least 1 gallon (1.6 oz. of REALITY Termiticide/Insecticide concentrate) of 0.5% emulsion per 10 square feet (horizontal barrier) must be applied either as emulsion, foam, or a combination of both. For a foam only application, apply REALITY Termiticide/Insecticide concentrate in sufficient foam concentration and foam volume to deposit 6.4 oz. of concentrate per 10 linear feet or 1.6 oz. of concentrate per 10 square feet. For example, 1 gallon of 2% emulsion generated as foam to cover 10 linear feet is equal to the application of 4 gallons of 0.5% emulsion per 10 linear feet.

Sand Barrier Installation and Treatment

Termites can build mud tubes over treated surfaces as long as they have access to untreated soil and do not have to move REALITY Termiticide/Insecticide-treated soil. Fill in cracks and spaces with builder's or play box sand and treat the sand with REALITY Termiticide/Insecticide. The sand should be treated as soil following the termiticide rates listed on the REALITY Termiticide/Insecticide label.

Retreatment for subterranean termites can only be performed if there is clear evidence of reinfestation or disruption of the barrier due to construction, excavation, or landscaping and/or evidence of the breakdown of the termiticide barrier in the soil. These vulnerable or reinfested areas may be retreated in accordance with application techniques described in this product's labeling. The timing and type of these retreatments will vary, depending on factors such as termite pressure, soil types, soil conditions and other factors, which may reduce the effectiveness of the barrier.

Annual retreatment of the structure is prohibited unless there is clear evidence that reinfestation or barrier disruption has occurred.

APPLICATION IN CONJUNCTION WITH THE USE OF TERMITE BAITS

As part of the integrated pest management (IPM) program for termite control, REALITY Termiticide/Insecticide may be applied to critical areas of the structure including plumbing and utility entry sites, bath traps, expansion joints, foundation cracks and areas with known or suspected infestations at a rate of 0.5% as a spot treatment or complete barrier treatment. Applications may be made as described in the Post-construction treatment section fo this label.

Specific Pest Control Specialty Applications

Underground Services

Such as: wires, cables, utility lines, pipes, conduits etc. Services may be within structures or located outside structures, in right-of-way or to protect long range (miles) of, installations of services.

Soil treatment may be made using 0.5% to 1.0% REALITY Termiticide/Insecticide emulsion to prevent attack of termites and ants.

Apply 2 to 4 gallons of a 0.5% emulsion per 10 linear feet to the bottom of the trench and allow to soak into the soil. Lay services on the treated soil and cover with approximately 2 inches of fill soil. Apply another 2 to 4 gallons per 10 linear feet over the soil surface to complete the treatment barrier. In wide trenches, only treat the soil in the area near the services. It is important to establish a continuous barrier of treated soil surrounding the services.

Where soil will not accept the above-labeled volume, 1 to 2 gallons of 1% REALITY Termiticide/Insecticide may be used per 10 linear feet of trench both to the bottom of the trench and over the soil on top of the services.

Finish filling the trench with treated fill soil. The soil where each service protrudes from the ground may be treated by trenching/rodding of no more than 1 to 2 gallons of emulsion into the soil.

Application Precautions:

Do not treat electrically active underground services.

Posts, Poles, and Other Constructions

Create an insecticidal barrier in the soil around wooden constructions such as signs, fences and landscape ornamentation by applying a 0.5% emulsion.

Previously installed poles and posts may be treated by sub-surface injection. Treat on all sides to create a continuous insecticidal barrier around the pole. Use 1 gallon of a 0.5% emulsion per foot of depth for poles and posts less than six inches in diameter. For larger poles, use 1.5 gallons of emulsion per foot of depth. Apply to a depth of 6 inches below the bottom of the wood. For larger diameter constructions, use 4 gallons of emulsion per 10 linear feet per foot of depth.

Treatment of Wood-in-Place for Control of Wood-infesting Insects (Localized Areas in Structure)

For the control of insects, such as, termites, ants, carpenter ants, wood infesting beetles (Old House Borer, Powder Post), bees, wasps, hornets and yellow-jackets in posts, poles and other wood constructions in and around structures, paint on, spot spray, or fan spray a 0.5% emulsion to voids and galleries in damaged wood and in spaces between wooden members of a structure and between wood and foundation where wood is vulnerable. Plastic sheeting must be placed immediately below overhead areas that are spot treated except for soil surfaces in crawlspaces. Application may be made to inaccessible areas by drilling, and then injecting emulsion with a crack and crevice injector into the damaged wood or void spaces. This type of application is not intended to be a substitute for soil treatment, mechanical alteration or fumigation to control extensive infestation of wood-infesting insects.

Control of Bees and Wasps Indoors: To control bees, wasps, hornets, and yellow jackets apply a 0.5% emulsion. Application should be made in the late evening when insects are at rest. Spray liberally into hiding and breeding places, especially under attic rafters, contacting as many insects as possible. Repeat as necessary.

Termite carton nests in trees or building voids may be injected with 0.5% to 1.0% emulsion. Multiple injection points to varying depths may be necessary. It is desirable to physically remove carton nest material from building voids when such nests are found.

Important: Do not apply emulsion until location of heat pipes, ducts, water and sewer lines and electrical conduits are known and identified. Care must be taken to avoid puncturing and injection into these structural elements. Do not apply into electrical fixtures, switches, or sockets.

Applications in and on Buildings and Structures

REALITY Termiticide/Insecticide is to be used for residual pest control in and on buildings and structures and their immediate surroundings and on modes of transport. Permitted areas of use include, but are not limited to industrial buildings, houses, apartment buildings, laboratories, busses, greenhouse and the non-food/feed areas of stores, warehouses, vessels, railcars, trucks, trailers, aircraft (Do not use in aircraft cabins), schools nursing homes, hospitals (non-patient areas), restaurants, hotels, and food manufacturing, process and servicing establishments.

Do not tank mix this product with dichlorvos (DDVP) containing products. Can be tank-mixed with Insect Growth Regulators (IGR's) or pyrethrin-containing products. When mixing REALITY Termiticide/Insecticide with other products, observe all precautions and limitations on the labels of each product. To prepare the emulsion dilute REALITY Termiticide/Insecticide with water only. To prepare a 0.5% emulsion, mix 1.6 oz. (50 ml) in 1 gallon of water.

REALITY Termiticide/Insecticide is an emulsifiable concentrate to be diluted with water and used to control pests in and around homes and other structures. The pests controlled are listed in the accompanying tables.

REALITY Termiticide/Insecticide may be used as a broadcast or spot application to carpeting, wood, lawns and soil (crawl space and perimeter) and as a crack and crevice injection, or paint-on treatment. Crawlspace are considered inside the structure. Consult tables for specific use instructions.

Broadcast Treatment of Wood for the Control of Wood-infesting Insects and Nuisance Pests outside of Structure

Apply a 0.5% emulsion with a fan spray using a maximum of 25 p.s.i. Treatment should be made just to point of runoff.

To control wood-infesting insects active inside trees, utility poles and/or fence posts, drill to find the interior infested cavity and inject a 0.5% emulsion. To control bees, wasps, hornets, and yellow jackets, apply in late evening when insects are at rest. Aim spray at nest openings in ground, bushes and in cracks and crevices, which may harbor nests, saturating nest openings and contacting as many insects as possible.

Pests Under Slabs

Infestations of Arthropods, such as ants, cockroaches, scorpions and other nuisance pests inhabiting under paved areas may be controlled by drilling and injecting or horizontal rodding and then injecting 1 gallon of a 0.5% to 1.0% emulsion per 10 square feet or 2 gallons per 10 linear feet.

Pest Control in Crawlspace

Broadcast REALITY Termiticide/Insecticide at 0.5% to all surfaces in crawlspace to control ants, fleas, roaches, scorpions, or other nuisance insects listed in the table below. Product may also be applied through under structure insecticidal delivery systems such as piping or flexible tubing mounted under the structure. This treatment is not intended as a substitute for termite control. Treat surfaces to point of run-off. Keep children and pets off surface until dry.

Pest Control on Outside Surfaces and Around Buildings

Apply REALITY Termiticide/Insecticide using a 0.5% emulsion as a residual spray to outside surfaces of buildings including, but not limited to, exterior siding, foundations, porches, window frames, eaves, patios, garages, refuse dumps, lawn areas adjacent or around private homes, duplexes, townhouses, condominiums, house trailers, apartment complexes, carports, garages, fence lines, storage sheds, barns, residential structures, commercial and institutional buildings, soil, trunks of woody ornamentals and other areas where pests congregate or have been seen. Repeat treatment as necessary to maintain effectiveness.

Application Restrictions:

- Do not water the treated area to the point of run-off.
- Do not make applications during rain.

Vinyl and Aluminum Siding: The application of REALITY Termiticide/Insecticide to vinyl and aluminum siding (particularly lightly colored, aged, weathered or otherwise damaged) may result in staining, bleaching or discoloration. Factors such as extreme heat and direct sunlight can promote damage when using emulsifiable concentrates. Before applying REALITY Termiticide/Insecticide to vinyl or aluminum siding, treat a small area and evaluate 30 minutes later to allow any potential staining to occur. Regardless of the test results, do not apply to vinyl or aluminum siding when exposed to direct sunlight or during the heat of the day.

Perimeter Treatment

Apply a band application 6 to 10 feet wide around and adjacent to the structure. Also, treat the base of the structure to a height of 2 to 3 feet. Use a spray volume of 2 to 10 gallons of emulsion per 1000 square feet. Higher volumes of water may be needed if mulch or leaf litter is present or foliage is dense. House siding may be treated if pests such as Gypsy moth adults and caterpillars, box elder bugs, elm leaf beetles, earwigs or silverfish are present.

Insect Pests Controlled by REALITY Termiticide/Insecticide

| Pest | Specific Instructions |
|--|--|
| Ants Ant Mounds ^{1,4} Armyworm ⁴ Bark Beetles ³ Bees Beetles Borers ³ Boxelder Bugs ² Carpenter Ants Carpenter Bees Centipedes Chinchbugs ⁴ Cockroaches Cockroaches (Asian) Crickets Earwigs Elm Leaf Beetles ² Fire Ants Fleas ⁴ Flies Firebrats Ground Beetles Gypsy Moths (adults & caterpillars) ² Millipedes Mole Crickets Pill Bugs Scorpions Silverfish Sod Webworm Sowbugs Spiders Ticks (including: Deer Tick, Western Black-legged Tick known to transport Lyme disease and Rocky Mountain Spotted Fever) ⁴ Wasps | <p>Application: Apply as a pin stream, as a fine/coarse, low pressure spray (20 psi or less), as a spot treatment or with a paintbrush. Treat where pests are found or entry points of the structure such as window and doorframes and along the foundation.</p> <p>¹Drench Method: Apply 1-2 gallons of emulsion to each mound area by sprinkling the mound until it is wet and treat a 4 foot diameter circle around the mound. Use the higher volume for mounds larger than 12". For best results, apply in cool weather, such as in early morning or late evening hours, but not in the heat of the day.</p> <p>²Boxelder Bugs, Elm Leaf Beetles and Gypsy Moth Caterpillars: Spray tree trunks, building siding or wherever pests congregate, to the point of runoff.</p> <p>³Borers and Bark Beetles: To prevent infestation of trees and woody ornaments, spray the bark to the point of runoff.</p> <p>⁴Lawns: Apply REALITY Termiticide/Insecticide at the rate 0.4 – 0.8 fl. oz. per 1000 square feet in a volume of water sufficient for uniform coverage such as 4 to 25 gallons of water. Use the lower rate to knockdown existing pests and the higher rate where faster knockdown or greater residual is desired. Dense or excessive (greater than 3 inches) lawn height and arid conditions may require higher volume application rates. Repeat application if necessary. Application in combination with compatible surfactants or wetting agents may enhance penetration.</p> |

Ornamental and Lawn Applications

REALITY Termiticide/Insecticide may be used to control insect pests on ornamentals, lawns, trees, shrubs, and vines in landscape areas around residential, public, institutional, commercial and industrial buildings, parks, recreational areas and athletic fields. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior plantscapes, ornamental gardens or parks, or lawns and grounds.

Not for use on plants being grown for sale or other commercial, or for commercial seed production, or for research purposes.

Application Instructions

Apply REALITY Termiticide/Insecticide when insects appear or feeding is noticed. Use the higher rate for heavy pest populations. Repeat the application as necessary to maintain control. REALITY Termiticide /Insecticide may be applied by ground equipment only. Use sufficient water to obtain full coverage.

REALITY Termiticide/Insecticide has demonstrated excellent plant safety; however, not all cultivars have been tested. Before treating large numbers of plants of a particular cultivar, treat a few plants and observe prior to full-scale application.

Application Restrictions:

- Do not apply more than 2.0 lb. a.i./Acre/Year.
- Do not water the treated area to the point of run-off.
- Do not make applications during rain.

Spray Drift Restrictions and Precautions:

- All ground application equipment must be properly maintained and calibrated using appropriate carriers.
- Do not make ground applications during temperature inversions.
- Make ground applications when the wind velocity favors on target product disposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 15 mph.
- Do not apply by ground equipment within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farm ponds.

Application Rates for Ornamental Plants and Trees

| Plant | Pest | Treatment Rate | Specific Application Instructions |
|---|--------------------------------|---------------------------------------|--|
| Ornamental Plants, Foliage and flowering plants, evergreens, woody and herbaceous non-edible ornamentals and non-bearing plants of fruiting species in landscaped areas around industrial, residential and commercial buildings, non-crop, and, for treatment of plants intended for aesthetic purposes in interior gardens and landscapes. | Ants | 4 to 8 fl. oz. per 100 gallons | Apply sufficient volume of water to adequately cover foliage. |
| | Aphids | | |
| | Bagworm | - or - broadcast | Use higher rate for moderate to high infestations. |
| | Beet Armyworm | | |
| | Birch Leafminer | 0.9 to 1.8 fl. oz. per 10,000 sq. ft. | Direct application to blooms may cause browning of petals. Marginal leaf burn may occur on Salvia, Dieffenbachia and Pteris Fern. *For control of Coneworms, Nantucket Pine Tip Moth and Seed Bugs in evergreens: Begin application when adults appear. Repeat applications may be made on 5 to 7 day intervals as needed. To control Webbing Coneworms make first application just prior to peak pollen flight. To Control other Coneworms and Seed Bugs, make application 30 days following flower closure. Mix 8 ounces in 100 gallons of water and apply 5 to 10 gallons of spray per tree. |
| | Cabbage Looper | | |
| | Cankerworms* | | |
| | Citrus Thrips | | |
| | Coneworms* | | |
| | Fungus Gnat | | |
| | Gypsy Moth | | |
| | Caterpillars | | |
| | Heliothis spp. | | |
| | Japanese Beetles | | |
| | Lace Bug | | |
| | Leaf Feeding Caterpillars | | |
| | Leafhoppers | | |
| | Leafminers | | |
| | Leafrollers | | |
| | Lygus Bugs | | |
| Mealybugs | | | |
| Nantucket Pine Tip Moth* | | | |
| Pine Sawflies | | | |
| Plant Bugs | | | |
| Root Weevils (Adult) | | | |
| Seed Bugs* | | | |
| Tent Caterpillars | | | |
| Webworms | | | |
| Whiteflies | | | |
| Zimmerman Pine Moth | | | |
| Ornamental Trees | Clearwing Moth | 1 to 2 qts. per 100 gallons | Apply to the lower branches and trunks prior to adult emergence. Adult emergence varies according to pest species, host tree, environmental conditions and geographic location. |
| | Borers | | |
| | Ash Borer, Banded Ash | | |
| | Clearwing, Dog- wood | | |
| | Borer, Lesser Peachtree | | |
| | Borer, Lilac Borer, Oak Borer, | | |

| | | |
|---|-----------------------------|--|
| Peachtree Borer, Rhododendron Borer | | Thorough coverage of bark is required for control. |
| Bark Beetles Dendroctonus spp., Ills spp., Elm Bark Beetles, Mountain Pine Beetle, Pine Engravers, Turpentine Beetles, Western Pine Beetle | 2 to 5 qts. per 100 gallons | |
| Coleopteran Borers Bronze Birch Borer, Flatheaded Apple-tree Borer | 2 to 5 qts. per 100 gallons | |
| For maximum residual control of the above listed pests | 5.35 qts. per 100 gallons | |

Application Rates for Lawns

| Plant | Pest | Treatment Rate | Specific Application Instructions |
|---|---|--------------------------------------|--|
| Lawns around residential, commercial, industrial, institutional, and public areas | Ants Chinchbugs Pillbugs Fleas Mole Crickets Sod Webworm Ticks (including Deer Tick and Western Black-legged Tick which may carry Lyme disease and Rocky Mountain Spotted Fever) For additional pests controlled, consult the list of pests under Outside Surfaces and Around Buildings. | 0.4 to 0.8 fl. oz. per 1,000 sq. ft. | Apply using 4 to 25 gallons of spray volume. Subsurface Injection: For flushing of Mole Crickets, subsurface injection may be used as a flush treatment in conjunction with an EPA-registered Mole Cricket control product. Inject 0.2 to 0.8 fluid ounce of REALTY Termiticide/Insecticide per 1,000 square feet. Observe precautions and restrictions on more restrictive label. Do not exceed label rates for these products. Do not mix products with label prohibitions against such mixing. |

Agricultural and Domestic Applications

REALITY Termiticide/Insecticide can be used for residual pest control in and on buildings and structures used for agricultural purposes and their immediate surroundings. Pests controlled are listed in the accompanying tables. REALITY Termiticide/Insecticide may be applied as a space spray or directly to walls and ceilings as a residual surface treatment. When applied as a fog or fine mist, direct the spray toward the ceiling and upper corners until the area is filled with mist. For best results, close doors and windows before spraying and keep them closed for 10 to 15 minutes. Vacate the treated area and ventilate before reoccupying. Animals should be removed from area prior to treatment. Repeat treatment as necessary.

The use of any residual fly spray should be supplemented with proper manure management and general sanitation to reduce or eliminate fly breeding areas.

The use of any residual fly spray should be supplemented with proper manure management and general sanitation to reduce or eliminate fly breeding areas.

Application Rates for Agricultural Structures As a Surface or Space Spray – Livestock Premises

| Application | Pest | Dilute | Application Rate |
|---|---|--|---|
| Dairies, barns, feedlots, stables, poultry houses, swine and livestock houses, animal hospitals, pens and kennels, outside meat processing premises | Beetles (such as Darkling Beetle) House Flies Lesser Mealworm Stable Flies and other manure breeding insects. Also aids in the reduction of Cockroaches, Mosquitoes and Spiders. | As a spray - 4 fl. oz. to 12.5 gallons water | Spray surfaces until wet or 1 gallon per 750 square feet. (Do not use in milk rooms.) |
| | | As a fog or mist - 1.5 to 2.0 fl. oz. to 1 gallon water | Apply until area is filled with mist, using 2 fluid ounces per 1,000 cubic feet of space. (Can be used in milk rooms.) |
| | | Overhead space spray system - 4 fl. oz. to 10 gallons mineral oil | 4 fluid ounces spray per 1,000 cubic feet of air space. (Do not use in milk rooms.) |
| | Temporary reduction of annoyance from pests mentioned above | Outdoor space spray - 1.5 fl. oz. to 1 gallon water | Fill area with mist. Apply while the air is still and avoid wetting foliage. |
| | Bed bugs Chicken Mites | As a spray – 4 fl. oz. to 10 gallons water. For severe infestation, it is permissible to use 4 fl. oz. to 4 gallons water. | Spray crevices of roost poles, cracks in walls and cracks in nest and nest boxes. |
| | Fleas Ticks (including the Deer Tick) | Indoor spray - 3 fl. oz. to 2 gallons water | Treat around windows, doors, porches, screens, eaves, patios, garages, under stairways and in crawl spaces where these pests may occur. Apply until surface is wet (approx. 1 gallon per 750 to 1,000 square feet.) |
| | | Outdoor spray - 4 fl. oz. to 100 gallons water. For longer residual, use up to 8 fl. oz. to 100 gallons water | Use enough finished spray to penetrate foliage, usually 50 to 100 gallons per acre. To prevent infestation of buildings, treat a band of vegetation 6 to 10 feet adjacent to the structure. |

Avoid contamination of feed and water. Do not apply dilutions for premise spray directly to livestock or poultry.

Livestock Spray

Consult a veterinarian before using this product on medicated, debilitated, aged, pregnant or nursing animals.

| Animals | Pest | Dilute & Use | Application Rate |
|---|---|--|---|
| Lactating and non-lactating dairy cattle and goats, beef cattle and sheep | Horn Flies only | 4 fl. oz. to 50 gallons water (treats 200 head), 0.025% Active Ingredient (A1). High pressure spray. | 1 quart of coarse spray per animal. |
| | Black Flies Deer Flies Eye Gnats Face Flies Horn Flies Horse Flies House Flies Lice Mange Mites Scabies Mites Sheep Keds Stable Flies Ticks | 4 fl. oz. to 25 gallons water (treats 50-100 head), 0.05% AI. High pressure spray. | 1 to 2 quarts of coarse spray per animal over whole body surface. For Mange, Scabies, Ticks and Lice, thoroughly wet animal. Repeat application 10 to 14 days for Mites And Lice. |

| | | | |
|---|---|--|---|
| | Ticks Face Flies Horn Flies Lice Stable Flies | 4 fl. oz. to 2 1/2 gallons water (treats 64-80 head), 0.05% AI. Low pressure spray (hand pump sprayer). | For Fly and Lice control, spray mid-line from face to tailhead to point of runoff (4 to 5 fluid ounces). For Ear Tick control, spray directly into each ear (1/2 fluid ounce each). |
| | Face Flies Horn Flies Stable Flies | 4 fl. oz. to 10 gallons diesel oil or suitable mineral oil, 0.125% AI. Backrubber, self oiler. | Keep rubbing device charged. Results improved by daily forced use. |
| Poultry | Lice Northern Fowl Mites | 1 to 4 fl. oz. to 33/4 gallons water (treats 375 birds), 0.08 to 0.33% AI. High pressure spray. | 1 gallon of coarse spray per 100 birds, paying particular attention to vent area. |
| Swine (allow 5 days between last treatment and slaughter) | Lice Mange | 4 fl. oz. to 25 gallons water (treats 50-100 head), 0.05% AI. Sprayer or dip. | Thoroughly wet or dip animals including ears. For mange, spray pen floors, sides and bedding. Repeat at 14 days. |
| Horses | Black Flies Eye Gnats Face Flies Fleas | 1/4 fl. oz. to 1 pt. water, 0.6257% AI. Low pressure spray. | 1 to 2 fluid ounces spray per animal. Spot treat back, face, legs, tail and ears. |
| | Horn Flies Horse Flies House Flies Lice Mange Mites Scabies Mites Stable Flies Ticks | 1/4 fl. oz. to 1 1/4 gallons water, 0.0626% AI. Dip wash. | Thoroughly wet animal to skin with sponge or rag. Let drip dry. |

Companion Animals (Dogs only)

Do not use on dogs under twelve (12) weeks old. Consult a veterinarian before using this product on medicated, debilitated, aged, pregnant or nursing animals. Sensitivities may occur after using any pesticide product on pets. If signs of sensitivity occur, bathe your pet with mild soap and rinse with large amounts of water. If signs continue, consult a veterinarian immediately. Avoid contact with face, eyes, and genitalia. Repeat applications every 2 weeks, if necessary.

| Animals | Pest | Dilute & Use | Application Rate |
|------------------------------|----------------|--|---|
| Dogs (do not use on cats) | Fleas Ticks | 1/4 fl. oz. to 1 pt. water, 0.6257% AI. Low pressure spray. | 1 to 2 fluid ounces spray per animal. Spot treat back, face, legs, tail and ears. |
| | | 1/4 fl. oz. to 1 1/4 gallons water, 0.0626% AI. Dip wash. | Thoroughly wet animal to skin with sponge or rag. Let drip dry. |
| | | 4 fl. oz. to 20 gallons water, 0.0625% AI. Dip wash. | Make sure all areas are soaked to skin. Let drip dry on animal. Do not rinse off. |

Pest Control Indoors (Non-Food/Feed Areas)

Applications Information

REALITY Termiticide/Insecticide can be applied inside residential homes and to non-food/feed areas of commercial establishments including: garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, garages, mop closets, packaged goods storage areas and storage (after canning and bottling), and other non-food/feed areas of Food Handling Establishments. All areas where insects hide or through which insects may enter should be treated.

Use REALITY Termiticide/Insecticide to control pests listed in the following table by application of a 0.5% emulsion.

Do not use in Food/feed areas of Food/feed handling Establishments, restaurants or other areas where food/feed is commercially prepared or processed. Do not use in serving areas while food is exposed or facility is in operation. Serving areas are areas where prepared foods are served such as dining rooms, but excluding areas where foods may be prepared or held. In the home, all food processing surfaces and utensils must be covered during treatment or thoroughly washed before use. Exposed food must be covered or removed. Not for use in USDA Meat and Poultry Plants.

Common Indoor Insect Pests Controlled by REALITY Termiticide/Insecticide

| Pest | Special Application Instructions |
|---|---|
| Fleas | <p>Prior to treatment, carpets and furniture should be vacuumed thoroughly and vacuum cleaner bag discarded in an outdoor trash container. Evenly apply a broadcast spray at a rate of 1 gallon per 800 to 1600 square feet to infested areas such as crawlspaces, rugs, carpets, pet beds and other pet resting areas.</p> <p>Avoid wetting or soaking. For crawlspace applications, the applicator must wear a respirator recommended by NIOSH for filtering spray mists and organic vapors. When treating upholstered furniture take care to treat between and under cushions. Pay particular attention to areas, which are frequented by pets. Old pet bedding should be replaced with clean, fresh bedding after treatment. To control the source of flea infestations, pets inhabiting the treated premises should be treated with a flea-control product registered for application to animals.</p> |
| Ants (including Carpenter Ants, Fire Ants) Bat Bugs Bed Bugs Bees Box elder Bugs Brown Dog Ticks Carpenter Bees Carpet Beetles Centipedes Cockroaches, (including Asian) Crickets Earwigs Firebrats Flies (such as Drain, Cluster, House) Ground Beetles Leaf Beetles Millipedes Pantry Pests** (Such as: Flour Beetles, Indian Meal Moths, Larder Beetles) Pillbugs Scorpions Silverfish Sow bugs Spiders Ticks (including Deer Tick and Western Black-legged Tick known to transport Lyme disease and Rocky Mountain Spotted Fever) Wasps | <p>Apply to cracks and crevices, as a pin stream, as a fine/coarse, low pressure spray (20 psi or less), spot application or with a paintbrush. Treat where pests are found or normally occur, such as cracks and crevices in walls, in and around kitchen cabinets and drawers**, along baseboards, behind sinks and around plumbing and other utility installations. Ant infested wood may be drilled and injected with REALITY Termiticide/Insecticide.</p> <p>**Remove all utensils, uncovered foodstuffs (or any having original package opened), shelf paper and other objects before spraying. Allow treated surfaces to dry and cover shelves with clean paper before replacing any utensils, foodstuff or other items. Any foodstuff accidentally contaminated with spray solution should be discarded.</p> <p>For the control of carpet beetles, evenly apply the spray to rugs, carpets, along baseboards and edges of carpeting, under carpeting, rugs and furniture, in closets, on shelving, and wherever else these insects are seen or suspected. Avoid wetting or soaking.</p> <p>For the control of Brown Dog Ticks, evenly apply the spray to infested areas, such as pet beds and resting quarters, nearby cracks and crevices, along base-boards, windows and doorframes, and areas of floor and floor coverings where these pests may be present. Avoid wetting or soaking. Old bedding should be removed and replaced with clean, fresh bedding after treatment.</p> |

Applications for Fruit and Nut Trees Around Residential Sites Only

Apply the appropriate amount of REALITY Termiticide/Insecticide (see table below) in 100 gallons of water per acre (1 gallon per 436 square feet). REALITY Termiticide/Insecticide may be diluted and applied in greater volumes of water provided that the maximum application rates listed below are not exceeded on a per acre basis.

For example: when attempting to control Navel Orangeworm on almonds using an application volume of 200 gallons per acre (2 gallons per 436 square feet), the maximum legal dilution of REALITY Termiticide/Insecticide is 8 fluid ounces per 100 gallons (1/2 teaspoon per gallon).

Application Rates for Fruit and Nut Trees Around Residential Site Only

| Tree | Pest | Rate | Crop |
|------------|---|--|---|
| Almond | Navel Orangeworm Peach Twig Borer | 8 to 16 fl. oz. per 100 gal./A or 1/2 to 1 tsp. per 1 gal./436 sq. ft. | Do not harvest nuts within 7 days after application. Do not apply more than 32 fluid ounces per acre during hull split. Do not apply more than 80 fluid ounces per acre per year. |
| Apples | Green Fruitworm Oblique Banded Leafroller Plum Curculio Redbanded Leafroller Rosy Apple Aphid Spotted Tentiform Leafminer Tarnished Plant Bug White Apple Leafhopper | 4 to 8 fl. oz. per 100 gal./A or 1/4 to 1/2 tsp. per 1 gal./436 sq. ft. | Do not apply more than 24 fluid ounces per acre per year. |
| Cherries | Green Fruitworm Lesser Peachtree Borer Plum Curculio Redbanded Leafroller Rose Chafer Tarnished Plant Bug | 4 to 8 fl. oz. per 100 gal./A or 1/4 to 1/2 tsp. per 1 gal./436 sq. ft. | Do not harvest fruit within 3 days after application. Do not make more than 4 applications per year. Do not make more than 3 applications after petal fall. |
| Filberts | Filbertworm Oblique Banded Leafroller | 8 to 16 fl. oz. per 100 gal./A or 1/2 to 1 tsp. per 1 gal./436 sq. ft. | Do not harvest nuts within 14 days after application. Do not apply more than 64 fluid ounces per acre per year. |
| Peaches | Green Fruitworm Lesser Peachtree Borer Oriental Fruit Moth Peach Twig Borer Plum Curculio Rose Chafer Tarnished Plant Bug | 4 to 12 fl. oz. per 100 gal./A or 1/4 to 3/4 tsp. per 1 gal./436 sq. ft. | Do not harvest fruit within 14 days after application. Do not apply more than 60 fluid ounces per acre per year. |
| Pears | Pear Psylla | 8 to 16 fl. oz. per 100 gal./A or 1/2 to 1 tsp. per 1 gal./436 sq. ft. | Apply only during dormant through delayed dormant growth periods. Do not apply more than 32 fluid ounces per acre per year. |
| Pistachios | Leaffooted Bugs Navel Orangeworm Peach Twig Borer Plant Bugs Stinkbugs | 8 to 16 fl. oz. per 100 gal./A or 1/2 to 1 tsp. per 1 gal./436 sq. ft. | Nuts may be harvested on the day of application. Do not apply more than 32 fluid ounces per acre per year. Do not apply after 10 percent hull split. |

1 fluid ounce = 2 tablespoons = 6 teaspoons

Do not use household utensils to measure REALITY Termiticide/Insecticide .
REALITY Termiticide/Insecticide is not for use on commercial fruit and nut trees.

Treatment of Preconstruction Lumber and Logs

Application Information

REALITY Termiticide/Insecticide must not be diluted. To prepare the spray, dilute REALITY Termiticide/Insecticide in the following spray dilution chart:

| GALLONS OF SPRAY MIXTURE DESIRED | GALLONS OF REALITY TERMITICIDE/INSECTICIDE FOR 0.5% SOLUTION | GALLONS OF REALITY TERMITICIDE/INSECTICIDE FOR 0.75% SOLUTION | GALLONS OF REALITY TERMITICIDE/INSECTICIDE FOR 1.0% SOLUTION |
|----------------------------------|--|---|--|
| 40 | 1/2 | 3/4 | 1 |
| 80 | 1 | 1 1/2 | 2 |
| 200 | 2 1/2 | 3 3/4 | 5 |
| 400 | 5 | 7 1/2 | 10 |
| 800 | 10 | 15 | 20 |

Application Instructions

To protect unseasoned lumber and logs from wood destroying insects, such as Termites, Carpenter Ants and Beetles (Ambrosia, Powder-post, Old house borers and others), totally treat wood with a 0.5% to 1.0% solution of REALITY Termiticide/Insecticide . This solution can be applied by various methods including spraying, brushing, dipping, and pressure treatment. Frequent monitoring of dip and pressure systems are necessary to insure that the desired level of REALITY Termiticide/Insecticide is maintained. Wood can be handled after treatment when dry.

1. For dip treatments, totally submerge the wood in the solution until thoroughly wet and then allow to dry in a suitable location. Agitate dipping solutions to which REALITY Termiticide/Insecticide has been added before use if left unused for long periods of time. Periodically clean sediment, debris and other deposits from the tank.
2. For pressure treatments the wood must be placed in the treatment chamber, the REALITY Termiticide/Insecticide solution added and the system pressurized up to 250 psi for up to one hour depending on the density and type of wood treated. After the pressure is released and the system drained, the wood should be placed in a suitable location for drying.
3. For spray treatments, spray the wood thoroughly including back and ends.
4. For brush treatments, thoroughly treat all parts of wood surfaces.

RESTRICTIONS:

- Do not apply to sources of electricity.
- Do not allow people or pets on treated surfaces, such as carpets until the spray has dried.
- Do not use concentrate or emulsion in fogging equipment.
- Not for use in voids insulated with rigid foam.
- Firewood is not to be treated.
- Use only in well ventilated areas.
- During any application to overhead areas of structure, cover surfaces below with plastic sheeting or similar material (except where exempt).
- Do not allow spray to contact food, foodstuffs, food contacting surfaces, food utensils or water supplies.
- Thoroughly wash dishes and food handling utensils with soap and water if they become contaminated by application of this product.
- Do not treat areas where food is exposed.
- During indoor surface applications do not allow dripping or run-off to occur.
- Do not apply this product to any rooms while occupied by patients, the elderly or infirm.
- Do not use in aircraft cabins. For use in cargo areas only.
- Do not apply when occupants are present in the immediate area in institutions such as libraries, sport facilities, etc.
- Do not apply to classrooms when in use.
- Do not touch treated surface until dry.

Dealers Should Sell in Original Packages Only.

**IMPORTANT INFORMATION
READ BEFORE USING PRODUCT**

**CONDITIONS OF SALE AND LIMITATION OF WARRANTY
AND LIABILITY**

Seller warrants that at the time of delivery the product in this container conforms to its chemical description contained hereon and is reasonably fit for its intended purpose under normal conditions of use. This is the only warranty made on this product. Seller expressly disclaims any implied warranties of merchantability or fitness for any particular purpose and, except as set forth above, any other express or implied warranties. Any damages arising from breach of warranty or negligence shall be limited to direct damages not exceeding the purchase price paid for this product by Buyer, and shall not include incidental or consequential damages such as, but not limited to, loss of profits or values. It is impossible to eliminate all risks inherently associated with the use of this product. Plant injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of the Seller. To the fullest extent permitted by law, Seller shall not be liable for the consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the Buyer. Buyer acknowledges the use of its own independent skill and expertise in the selection and use of the product and does not rely on any oral or written statements or representations.

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